

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A proportional solenoid valve comprising:
a solenoid main body including a coil, a valve seat member having a seat portion, a ball-shaped valve element, a moveable member that comprises a plunger and a rod press fitted into the plunger and being contactable with the valve element and is moveable ~~is displaced~~ in accordance with a current applied to the coil so as to bring the valve element ~~be brought~~ into and out of contact with the seat portion, and a valve guide portion that is arranged coaxially with the seat portion and guides the displacement of the valve element;
a housing that is attached to the solenoid main body so that a space is formed between the housing and the valve seat member, and forms an input/output flow path of a fluid; and
a seal member that is made of an elastic material and is provided in the space.
2. (original): A proportional solenoid valve according to claim 1, wherein both of the valve guide portion and the valve seat member have a cylindrical shape, and the valve seat member is fitted and fixed around an outer peripheral surface of the valve guide portion.
3. (original): A proportional solenoid valve according to claim 1, wherein each of the valve guide portion and the valve seat member has a cylindrical shape, and the valve seat member is welded and fixed to a tip portion of the valve guide portion.
4. (original): A proportional solenoid valve according to claim 1, wherein the valve seat member has a cylindrical shape, and the valve guide portion is formed integrally with the valve seat member.